

WHAT IS CLAIMED IS:

1. A process for manufacturing a lubricant composition comprising combining a superabsorbent polymer with a material for decreasing friction between surfaces that frictionally engage one another, by polymerizing the monomers for forming said superabsorbent polymer with said material for decreasing friction.
2. The process of claim 1, comprising polymerizing said monomers for forming said superabsorbent polymer with said material for decreasing friction and a binder, wherein said binder is selected from thermoplastic resins or curable resins.
3. The process of claim 1, wherein said superabsorbent polymer comprises a polymer of acrylic acid, an acrylic ester, acrylonitrile or acrylamide, including co-polymers thereof or starch graft co-polymers thereof or mixtures thereof.
4. The process of claim 2, wherein said superabsorbent polymer comprises a polymer of acrylic acid, an acrylic ester, acrylonitrile or acrylamide, including co-polymers thereof or starch graft co-polymers thereof or mixtures thereof.
5. The process of claim 3, wherein said material for decreasing friction comprises a petroleum lubricant, synthetic lubricant, grease, solid lubricant or metal working lubricant optionally containing an additive.

6. The process of claim 5, wherein said material for decreasing friction comprises a solid inorganic lubricant.

7. The process of claim 6, wherein said solid inorganic lubricant comprises graphite, molybdenum disulfide, cobalt chloride, antimony oxide, niobium selenide, tungsten disulfide, mica, boron nitride, silver sulfate, cadmium oxide, cadmium chloride, cadmium iodide, borax, basic white lead, lead monoxide, lead carbonate, lead iodide, asbestos, talc, zinc oxide, carbon, babbit, bronze, brass, aluminum, gallium, indium, thallium, thorium, copper, silver, gold, mercury, lead, tin, indium, or the Group VIII noble metals or mixtures thereof.

8. The process of claim 6 wherein said solid inorganic lubricant comprises the chalcogenides of a non-noble metal and mixtures of said solid inorganic lubricant.

9. The process of claim 8 wherein said solid inorganic lubricant comprises the chalcogenides of molybdenum, antimony, niobium, and tungsten and mixtures of said solid inorganic lubricant.

10. The process of claim 9 wherein said solid inorganic lubricant comprises the sulfides of molybdenum, antimony, niobium, and tungsten and mixtures of said solid inorganic lubricant.

11. The composition of any one of claims 8-10 wherein said mixture comprises a two component mixture of said lubricants.

12. The composition of any one of claims 8-10 wherein said mixture comprises a three component mixture of said lubricants.

13. The composition of any one of claims 8-10 wherein said mixture comprises a four component mixture of said lubricants.

14. The process of claim 3, wherein said material for decreasing friction comprises a phosphate.

15. The process of claim 3, wherein said material for decreasing friction comprises tricresyl phosphate, zinc phosphate, iron phosphate or manganese phosphate, or mixtures thereof.

16. The process of claim 3, wherein said material for decreasing friction comprises a solid organic lubricant.

17. The process of claim 16, wherein said solid organic lubricant comprises a fluoroalkylene homopolymer or copolymer, a lower alkylene polyolefin homopolymer or co-polymer, a paraffinic hydrocarbon wax, phenanthrene, copper phthalocyanine, or mixtures thereof.

18. The process of claim 3, wherein said material for decreasing friction comprises a metal working lubricant.

19. The process of claim 3, wherein said material for decreasing friction comprises a petroleum oil lubricant.

20. The process of claim 3, wherein said material for decreasing friction comprises a grease.

21. The process of claim 3, wherein said material for decreasing friction comprises a silicone.

22. A product made by the process of any one of claims 1-21.

23. The process of any one of claims 1-21 comprising conducting said polymerization and coating said lubricant composition on a surface.

24. The process of claim 1 comprising conducting said polymerization and coating said lubricant composition on a wire.

25. The process of claim 1 comprising conducting said polymerization and coating said lubricant composition on a cable.

26. The process of claim 3 comprising conducting said polymerization and coating said lubricant composition on a wire.

27. The process of claim 3 comprising conducting said polymerization and coating said lubricant composition on a cable.

28. A product made by the process of claim 23.

29. A product made by the process of any one of claims 24-
27.